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1 [A framework for visual data mining of structures](#)

Hans-Jörg Schulz, Thomas Nocke, Heidrun Schumann

January 2006 **Proceedings of the 29th Australasian Computer Science Conference - Volume 1**

**Publisher:** Australian Computer Society, Inc.

Full text available: [pdf\(506.34 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index](#)

Visual data mining has been established to effectively analyze large, complex numerical data sets. The visualization of inherent structures such as hierarchies and networks has made a significant and challenging task for users to explore explicitly given large structures. In this paper, we approach this task using visualization and graph-theoretical methods. Therefore, we investigate if and how visualization can be used to effectively analyze large, complex numerical data sets.

2 [Industrial sessions: big data: The SDSS skyserver: public access to the sloan digital sky survey](#)

Alexander S. Szalay, Jim Gray, Ani R. Thakar, Peter Z. Kunszt, Tanu Malik, Jordan Raddick, Christoforos Boutsidis  
June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**

**Publisher:** ACM Press

Full text available: [pdf\(1.48 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The SkyServer provides Internet access to the public Sloan Digital Sky Survey (SDSS) data for education. This paper describes the SkyServer goals and architecture. It also describes our experience with the Internet. The SDSS data is public and well-documented so it makes a good test platform for performance evaluation and performance.

3 [Query Processing: Towards a visual query interface for phylogenetic databases](#)

Hasan M. Jamil, Giovanni A. Modica, Maria A. Teran  
October 2001 **Proceedings of the tenth international conference on Information and knowledge management**

**Publisher:** ACM Press

Full text available: [pdf\(3.74 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Querying and visualization of phylogenetic databases remain a great challenge due to their complex nature. Naturally, successful phylogenetic databases such as the *Tree of Life* database at the University of California, Berkeley have been implemented as Web documents in HTML. While Web implementation of such databases facilitates visualization of their contents, querying remains an issue. The interoperability of Web-based phylogenetic databases is a key issue.

**Keywords:** information retrieval, phylogenies, query language, relational database, tree and web

4 Visualization: Query, analysis, and visualization of hierarchically structured data using Polaris



Chris Stolte, Diane Tang, Pat Hanrahan

July 2002

**Proceedings of the eighth ACM SIGKDD international conference on Knowledge Discovery in Data (KDD '02)**

**Publisher:** ACM Press

Full text available: [pdf\(10.02 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In the last several years, large OLAP databases have become common in a variety of application warehouses and scientific computing. To support interactive analysis, many of these databases structures that provide meaningful levels of abstraction that can be leveraged by both the computing structure generates many challenges and opportunities in the design of systems for the query, i

5 Ordered and quantum treemaps: Making effective use of 2D space to display hierarchies



Benjamin B. Bederson, Ben Shneiderman, Martin Wattenberg

October 2002

**ACM Transactions on Graphics (TOG)**, Volume 21 Issue 4

**Publisher:** ACM Press

Full text available: [pdf\(3.15 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Treemaps, a space-filling method for visualizing large hierarchical data sets, are receiving increased attention. We have previously proposed to create more useful displays by controlling the aspect ratios of treemap. While these algorithms do improve visibility of small items in a single layout, they intrude on the display of dynamically changing data, fail to preserve order of the underlying data, and create large

**Keywords:** Hierarchies, human-computer interaction, image browsers, information visualization, treemaps, trees, zoomable user interfaces (ZUIs).

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